

## ABSTRACT OF THE DISCLOSURE

An electrical connector configured to nonrigidly apply force to a semiconductor substrate in directions substantially normal to a plane of the semiconductor substrate. The electrical connector includes a first member with an electrically conductive element and a first attractive element and a second member that includes a support element and a second attractive element. Attractive forces, such as magnetic attraction, between the first and second attractive elements secure the first and second members of the electrical connector to the semiconductor substrate in a manner that facilitates communication between the electrically conductive element of the first member and one or more semiconductor devices carried upon the semiconductor substrate. The electrical connector may be used in stress testing of semiconductor devices or to otherwise establish an electrical connection between one or more semiconductor devices, a ground, and a power source.

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